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Fig. 1

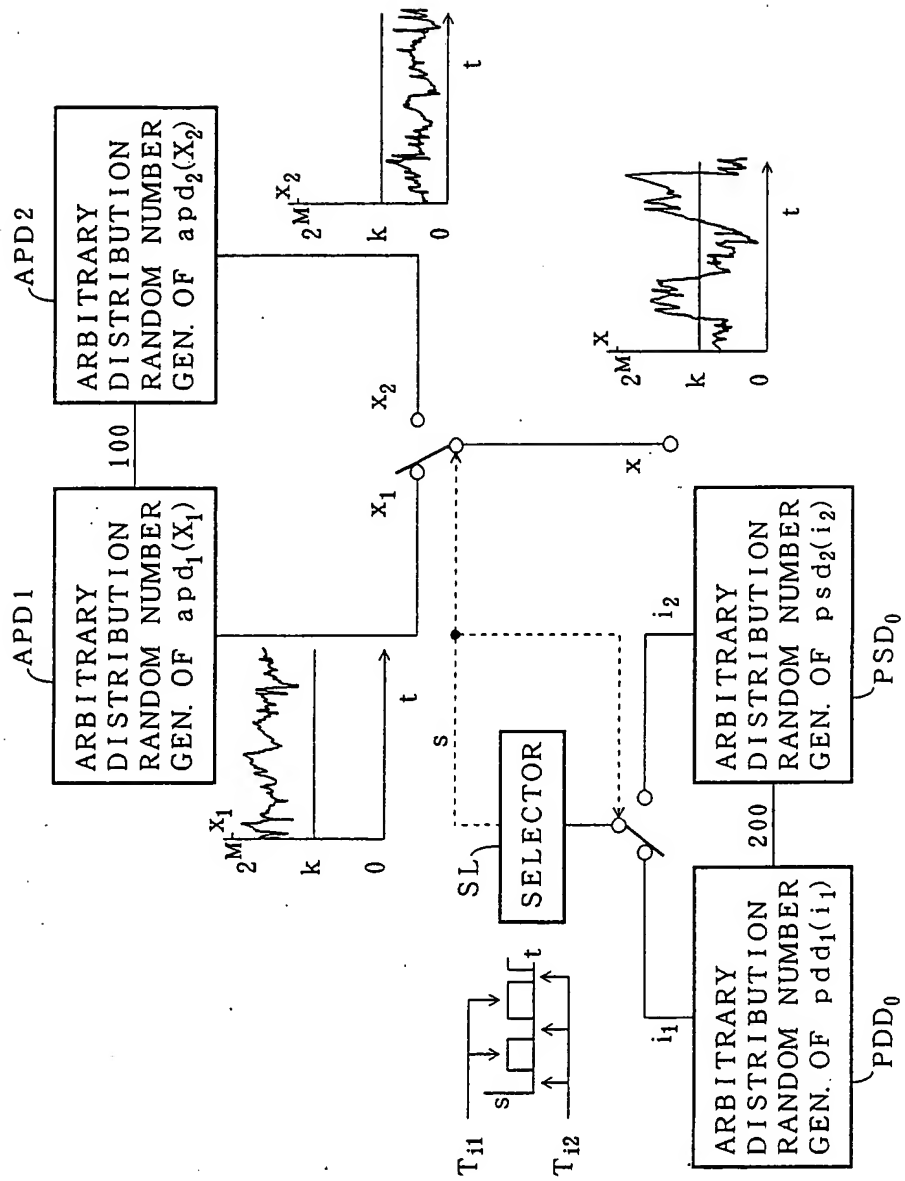


Fig. 2

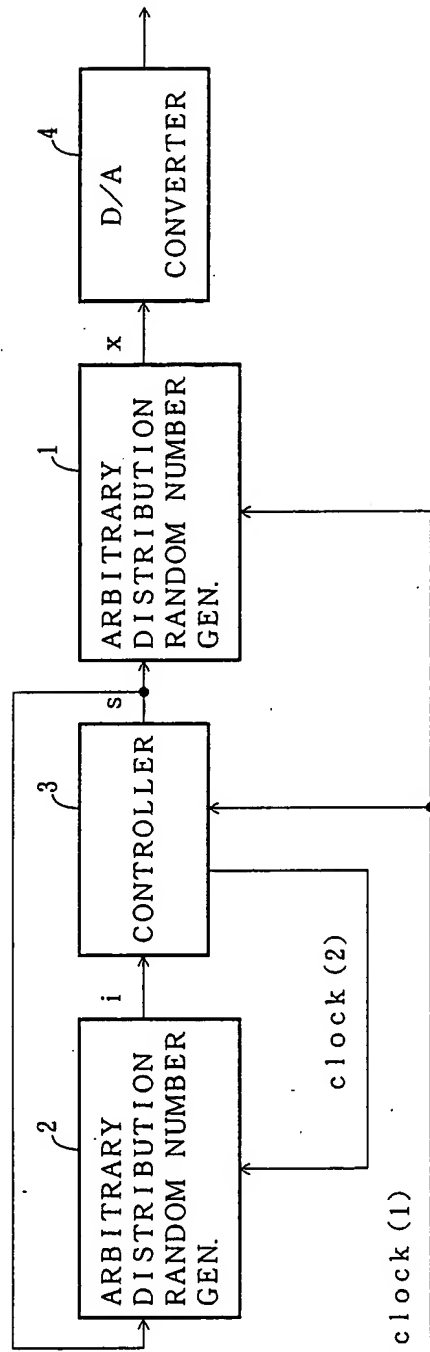
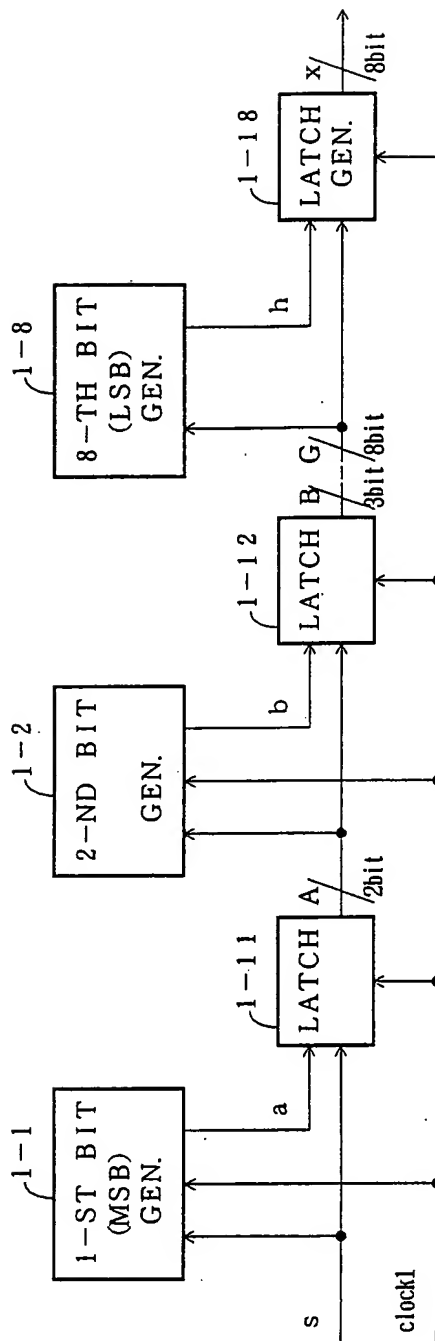


Fig. 3

ARBITRARY DISTRIBUTION RANDOM NUMBER GENERATOR 1



F i g . 4

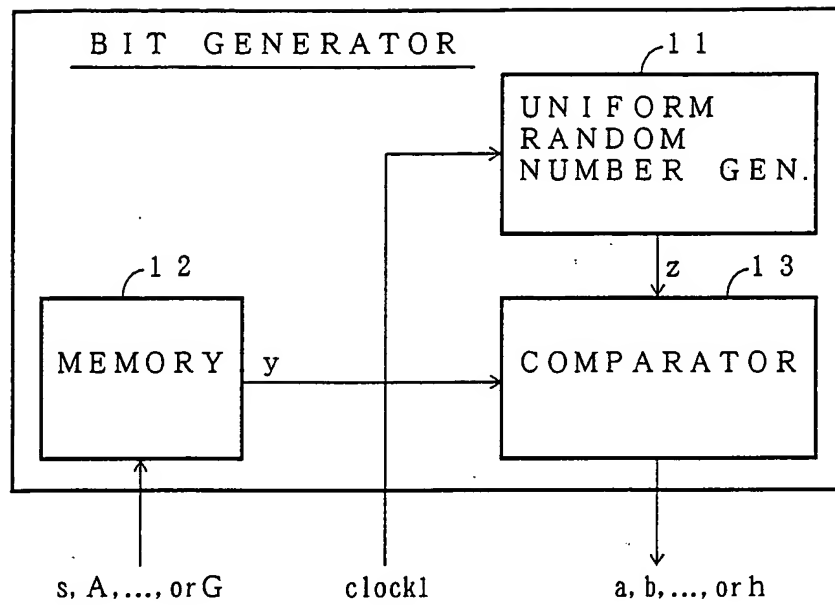


Fig. 5

MEMORY OF 1-BIT GEN.		MEMORY OF 2-ND GEN.				MEMORY OF 8-TH GEN.	
ADDRESS	DATA y	ADDRESS	DATA y			ADDRESS	DATA y
S	p c	S, a	p c			S, a, b, h	p c
0	p c ₂ (1, 0)	0, 0	p c ₂ (2, 0)			0, 0, ..., 0	p c ₂ (8, 0)
1	p c ₁ (1, 0)	0, 1	p c ₂ (2, 1)			0, 0, ..., 1	p c ₂ (8, 1)
		1, 0	p c ₁ (2, 0)	:	:
		1, 1	p c ₁ (2, 1)			:	:
						0, 1, ..., 1	p c ₂ (8, 127)
						1, 0, ..., 0	p c ₁ (8, 0)
						:	:
						:	:
						1, 1, ..., 0	p c ₁ (8, 126)
						1, 1, ..., 1	p c ₁ (8, 127)

Fig. 6

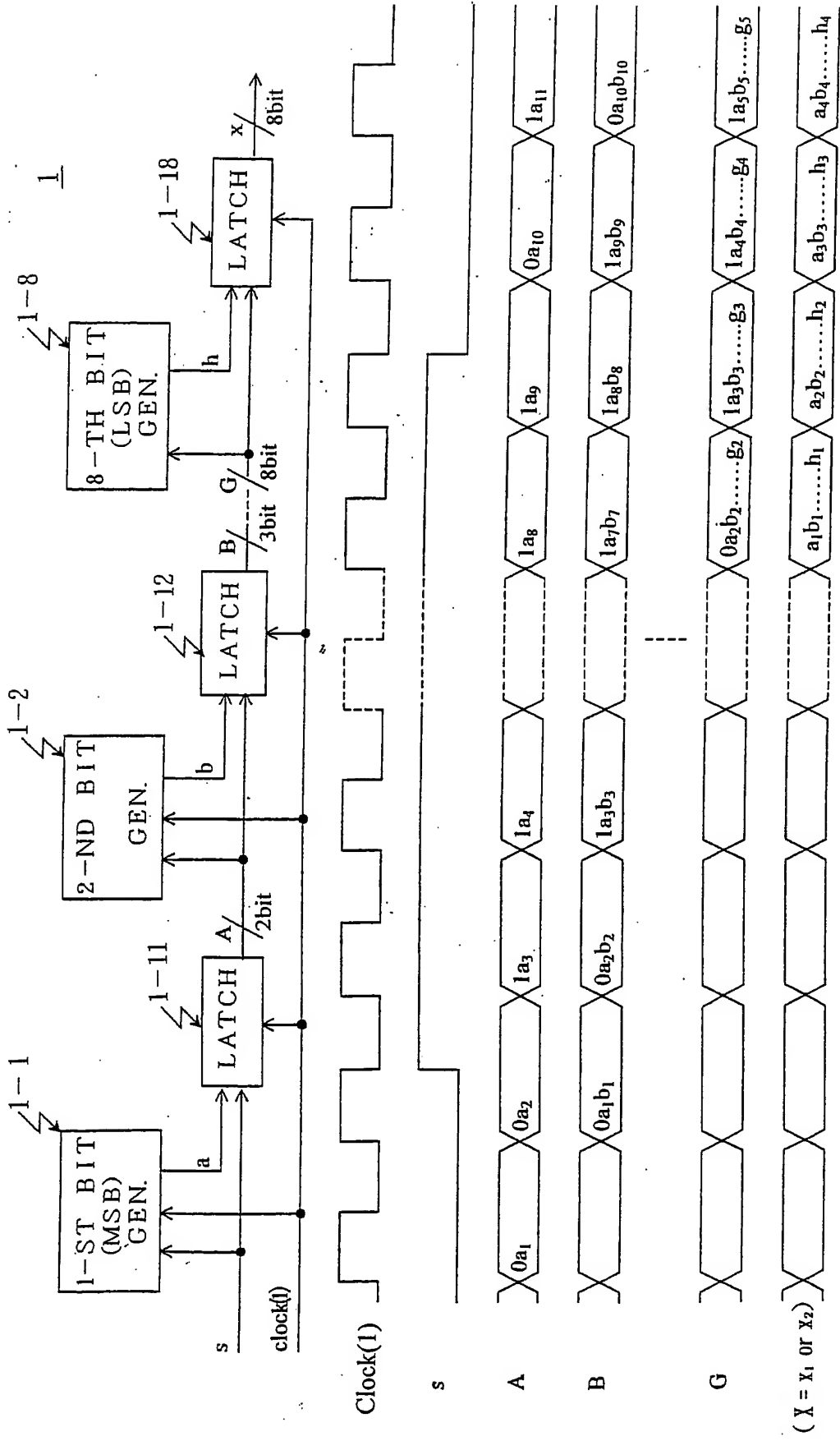


Fig. 7

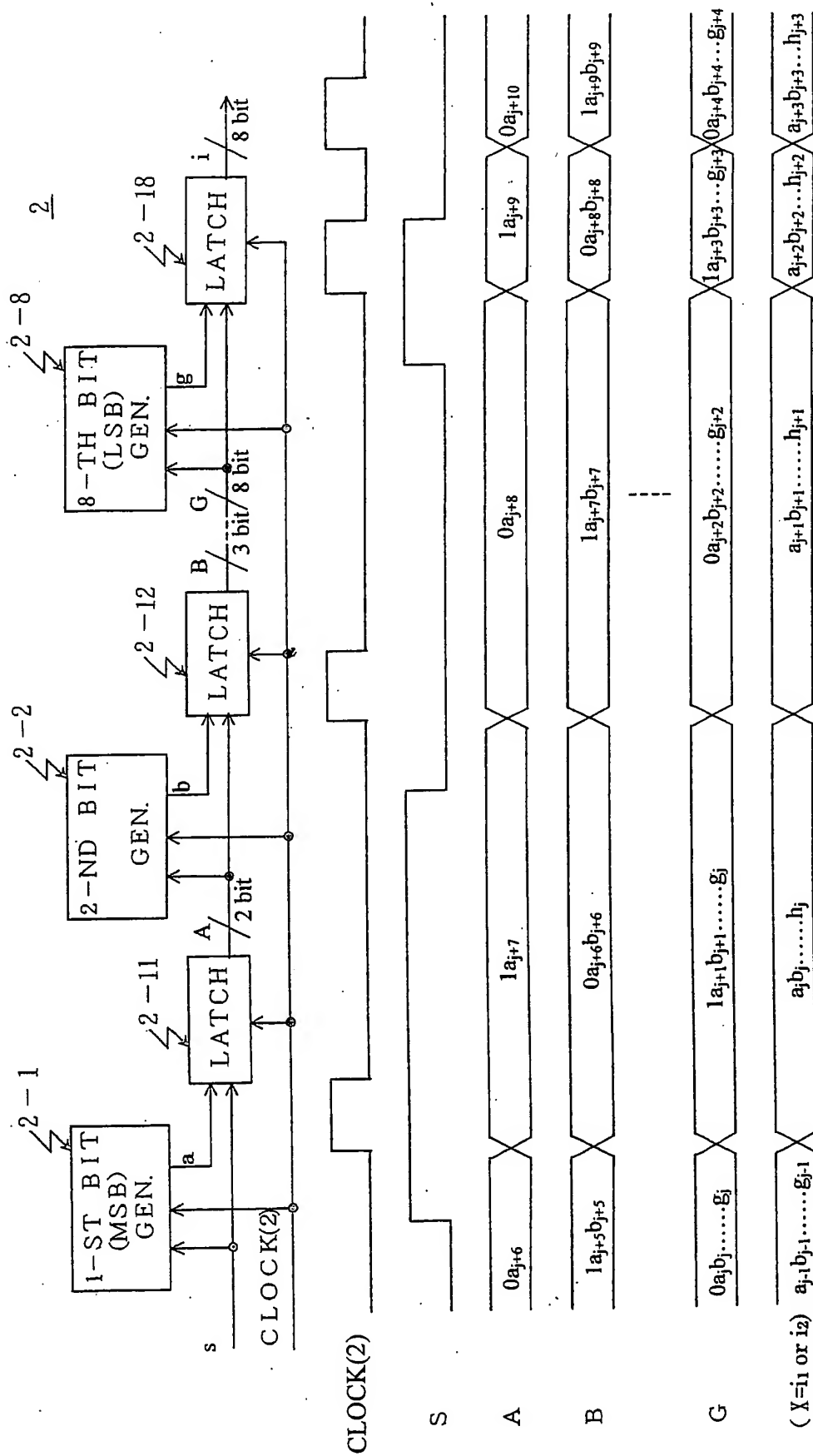
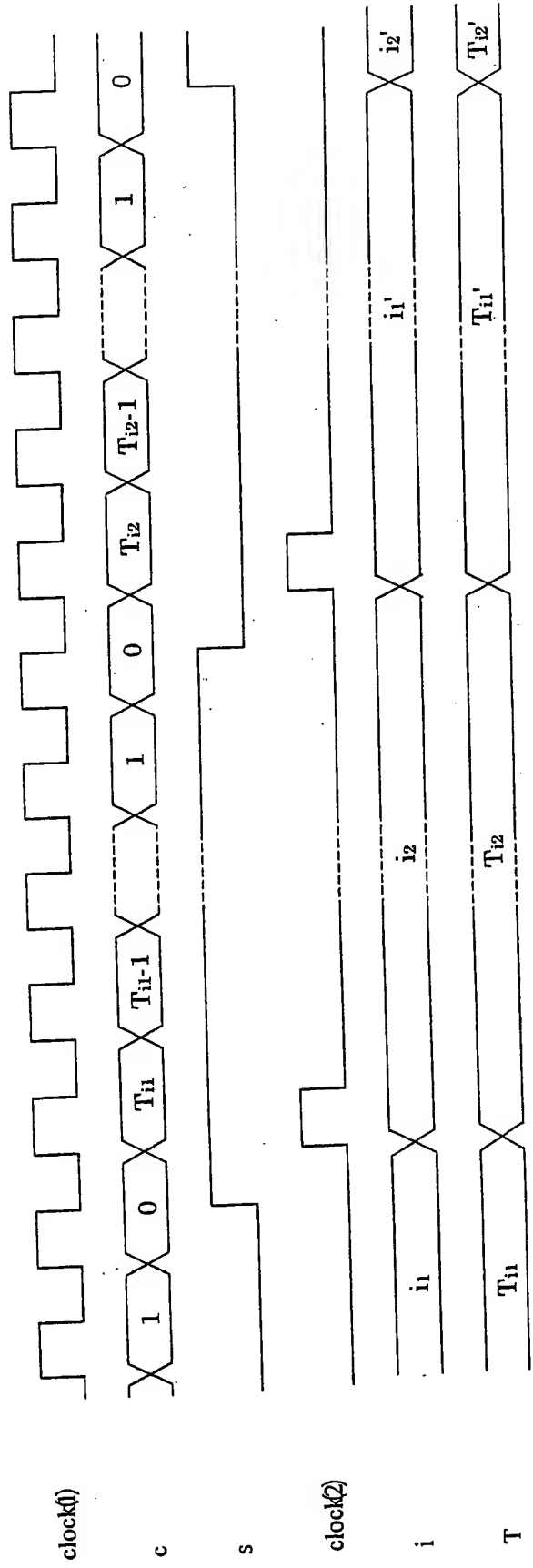
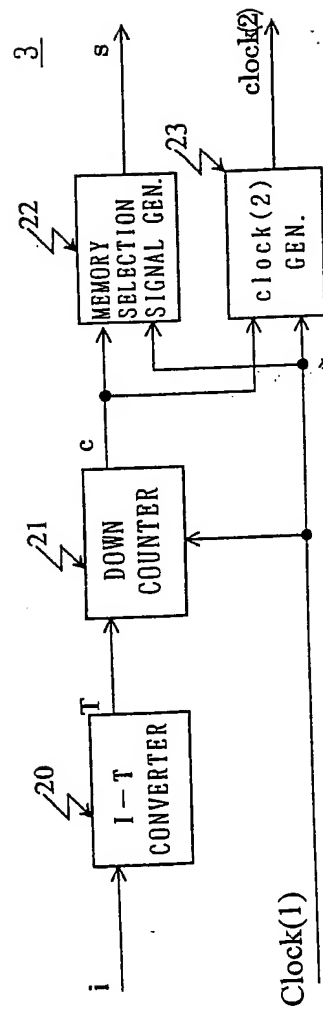
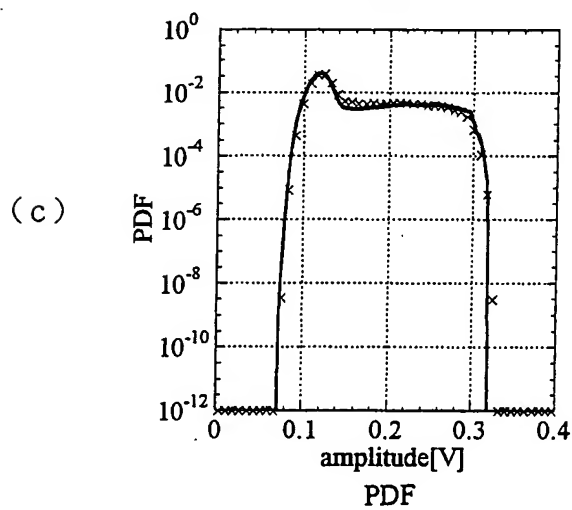
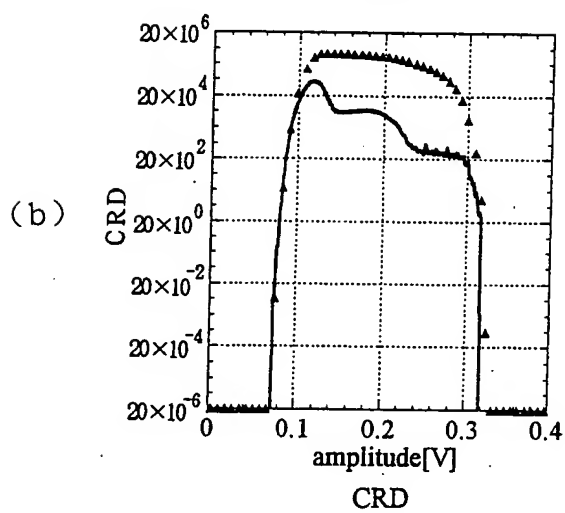
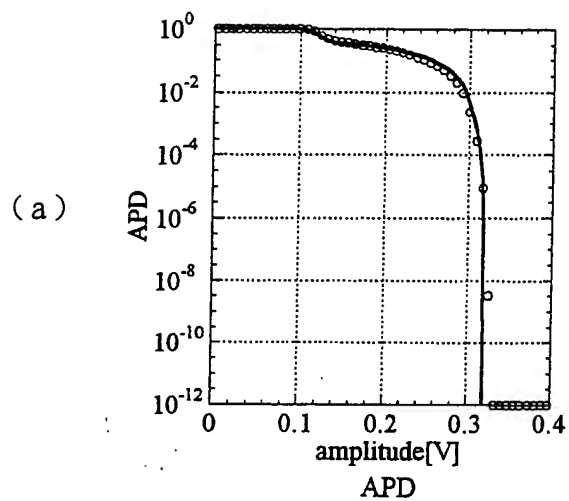


Fig. 8



F i g . 9



F i g . 1 0

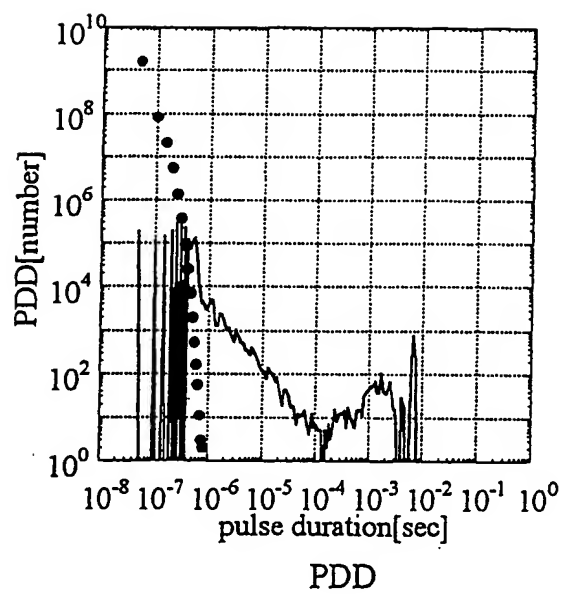
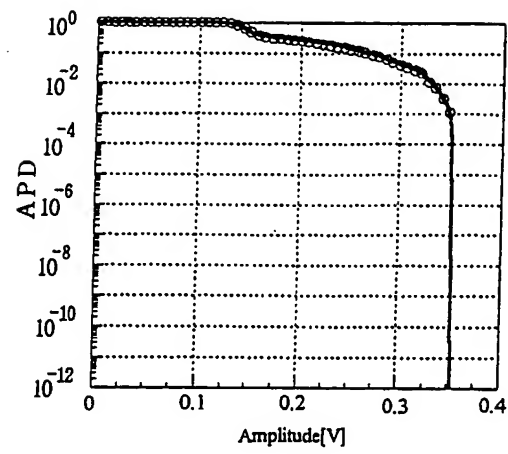


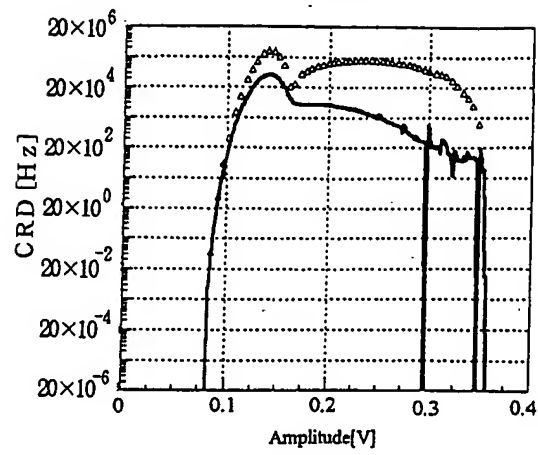
Fig. 11

(a)



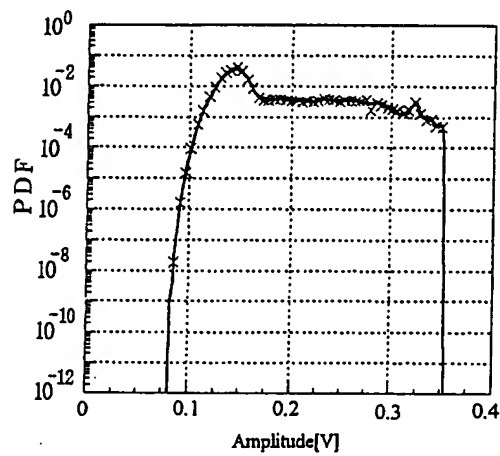
APD

(b)



CRD

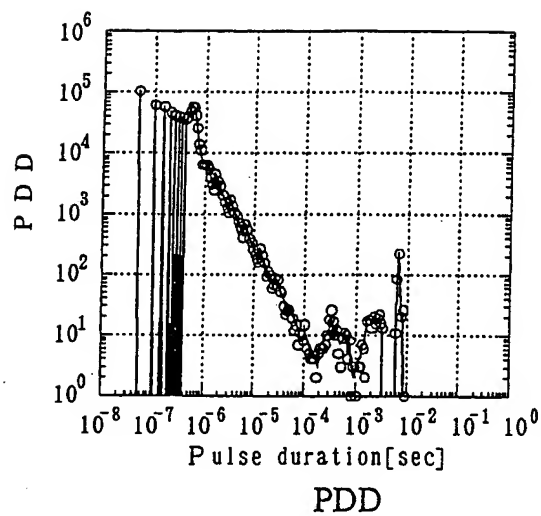
(c)



PDF

F i g . 1 2

(a)



(b)

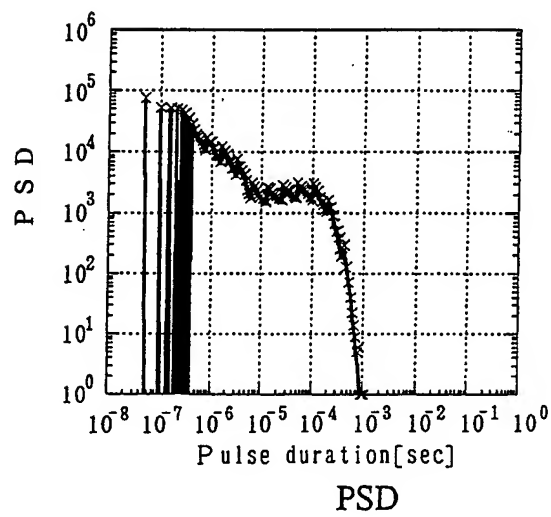


FIG. 13

